



DEPARTMENT OF THE NAVY
NAVAL ELECTRONIC SYSTEMS COMMAND
WASHINGTON, D.C. 20360

NAVELEX INST 4120.3C
ELEX 5043

2 March 1981

NAVELEX INSTRUCTION 4120.3C

From: Commander, Naval Electronic Systems Command

Subj: Specifications, Standards, Handbooks, and Commercial
Item Descriptions; Policy and Procedures for
Preparation, Coordination and Implementation of

Ref: (a) Defense Standardization Manual 4120.3-M
(b) MIL-STD-961
(c) MIL-STD-962
(d) Defense Acquisition Regulation (DAR); Section
I, Part 12 (NOTAL)
(e) NAVELEXINST 4120.12 of 18 Sep 1978
(f) Federal Standardization Handbook FPMR 101-29
(g) ONRINST 5870.5 of 24 Aug 1979
(h) NAVELEXINST 5420.10A of 24 Mar 1975
(i) Defense Acquisition Regulation, Appendix L
(j) MIL-HDBK 245

Encl: (1) Appendix A, Guidelines Regarding the Use of
MIL-E-16400

1. Purpose. To publish the current Naval Electronic Systems Command policies and procedures for the preparation, coordination and implementation of specifications (see enclosure (1)), standards, handbooks, and commercial item descriptions in accordance with Department of Defense (DoD) requirements.

2. Cancellation. This instruction supersedes and cancels NAVELEXINST 4120.3B of 2 July 1974.

3. Authority. The policies and procedures covered herein are based on policies and procedures established by the DoD in Chapters II and VI of reference (a) and by references (b), (c), and (d).

4. Definitions.

a. Specifications. Specifications are documents prepared specifically to support acquisition and clearly and accurately describes the essential technical requirements for purchased material. Procedures necessary to determine that the requirements for the purchased material covered by the specification have been met shall also be included. Types of specification include the following:

(1) Federal specifications. Federal specifications reflect the requirements for materials, products, or services, for use by two or more Federal agencies, at least one of which is an agency other than the DoD.

(2) Military specifications. Military specifications specify the items or services that are intrinsically military in character, or commercial items modified to meet special requirements of the military.

(a) Coordinated specifications specify items of common use concurred in by all interested activities of the three military departments.

(b) Limited coordinated specifications are those of single departmental interest or those prepared by a department or activity to satisfy an immediate procurement need. Limited coordinated specifications for which the Naval Electronic Systems Command is the preparing activity will carry the suffix (EC).

(3) Contract specifications (Purchase Descriptions and Brand Name or Equal Descriptions). Contract specifications (generally referred to as "purchase descriptions") and brand name or equal descriptions are documents for use in connection with a single specific procurement or as authorized in the DAR. They are used when there is no Federal or Military specification that meets the requirements of the proposed procurement. Upon expiration of the contract, the contract specification is automatically cancelled (see paragraph 5c(2) below).

b. Standards. Standards are documents that establish engineering and technical requirements for processes, procedures, practices and methods that have been adopted as standard. Standards may also establish requirements for selection,

application, and design criteria for material. Types of standards include the following:

(1) Federal standards. A standard, issued in the Federal series, which is mandatory for use by all Federal agencies and is approved for use by the military departments when approved by the DoD. These documents are issued or controlled by the General Services Administration (GSA) and are listed in the GSA Index of Federal Specifications, Standards, and Commercial Item Descriptions.

(2) Military standards. Military standards are issued in the following formats:

(a) Military sheet form standard (MS). The MS sheet form standard provides an identifying standard part number for items and is intended primarily for the depiction of physical items and design features of items. These standards will include only those dimensional and functional details required to ensure identification and interchangeability. MS sheet form standards shall not be prepared for any new military specification and will not be used in lieu of developing a specification.

(b) Military book form standard (MIL-STD). The book form type of standard is used for the comprehensive presentation of engineering practices (including test methods), procedures, processes, codes, safety requirements, symbols, abbreviations, nomenclature, type designations, and characteristics for standard equipments, either singly or in families. These standards are also used to cover overall characteristics or a family of end items or major components. Such characteristics include, as applicable, envelope dimensions, performance ratings, primary structural features, and data required for interchangeability of components.

c. Military handbooks (MIL-HDBK). Handbooks are used for the presentation of general information and procedural and technical data that are used in supply management operations and are normally invoked in specifications and standards. These handbooks also provide industry with reference material that will serve to further the standardization program.

d. Commercial item description (CID). The CID is a new series of simplified description generally tailored after a purchase description. This new series of document is intended to be used in the acquisition of commercial off-the-shelf and commercial-type products, and is based upon market research and analysis. The CID concisely describes the salient physical and functional/performance characteristics of commercially available products. The description shall be brief and enable precise selection from the makes, models, colors, or other variations of products offered for sale.

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(1) Commercial, off-the-shelf, product (also referred to as "commercial product") are those products in regular production sold in substantial quantities to the general public and/or industry at established market or catalog prices.

(2) Commercial-type product means a government-peculiar product which (a) though appearing to be a commercial product, is produced in accordance with particular government requirements; (b) is subjected to some physical change or addition and/or packaged and identified differently than its normal commercial product counterpart; and (c) may be, but is not necessarily stocked centrally by the government. (Products which are used in or in support of weapon systems and involve an essential system function or interface are not considered commercial-type.)

(3) Market research and analysis means the collection and evaluation of data necessary to determine (a) those salient characteristics which a product must possess to meet a particular government user's need; (b) those commercially available products possessing the salient characteristics; and (c) the alternative acquisition strategies available for acquiring such products.

e. Acquisition engineer (AE). The AE is the individual who performs engineering work in support of an acquisition. The AE has final technical authority for each procurement action. The AE may be an individual from ELEX ~~03~~, ~~04~~, ~~05~~, and PME codes.
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f. Acquisition manager (AM). The AM is the individual responsible for all of the functions relating to the acquisition of the system/equipment and for the acquisition of the integrated logistic support. The AM may be an individual from ELEX 03, 04, 05, and PME codes and shall be assisted by other members of the Acquisition Team.

g. Acquisition Logistician (AL). The AL is the individual within the acquisition code, assigned by the acquisition manager, to be responsible for:

(1) Effective definition and execution of an integrated logistic support program for specifically assigned acquisitions.

(2) Interpreting the operational concept of weapon systems and equipments for the purpose of establishing integrated logistic support concepts and requirements, parameters, and constraints for inclusion in appropriate basic planning documents, Requests for Proposal contracts, and Integrated Logistic Support Plans and other logistic documents.

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(3) Accomplishing logistic support actions directly or assigning responsibility for accomplishment to individual element managers within or external to his organization.

h. Integrated Logistics Support Manager (ILSM). The ILSM is the individual responsible for coordinating the total logistics effort in support of an acquisition and the inputs of the logistics effort in support of an acquisition and the inputs of the Logistics Directorate to the acquisition package.

5. Standards and specifications policy.

a. General. Specifications and standards prepared by the military departments shall be issued within the DoD in accordance with the basic policies contained in reference (a) in either the Federal or Military series. They establish requirements in terms of complete design details or in terms of performance but in most instances in terms of both design and performance. The technical requirements established shall meet minimum operational requirements and shall be in terms of performance with detail limited to that necessary to ensure that the end product will satisfy the purpose intended.

b. Application and tailoring in acquisition documentation. Specifications and standards application and tailoring in acquisition documentation shall be in accordance with reference (e). Technical requirements established by the specification writer functional elements will be those which reflect the Navy's minimal needs.

c. Preparation and coordination.

(1) Except as provided in paragraphs 5c(1)(a) through 5c(1)(h) below, military specifications shall be prepared for procurement of items to be repetitively stored and issued in the military supply system, and shall include provisions for preservation, packing, packaging, and marking. Military specifications are issued within the DoD in accordance with the basic policies in references (a) and (b) as either coordinated or limited coordinated documents.

(a) Purchase incident to research and development.

(b) Purchase of items for test or evaluation.

(c) Purchase of laboratory test equipment for use by Government laboratories.

(d) Purchase of items for authorized resale, except military clothing.

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(e) Purchases for construction when nationally recognized industry and technical source specifications and standards are available.

(f) Purchase of items in an amount not to exceed \$10,000. (Multiple small purchases of less than \$10,000 of the same item shall not be made for the purpose of avoiding the intent of this exception.)

(g) Purchase of one-time procurement items.

(h) Purchase of items for which it is impracticable or uneconomical to prepare a Federal or Military specification. (Repetitive use of a contract specification containing the essential characteristics of a military specification will be construed as evidence of improper use of this exception.) Each request for re-use of a contract specification must be submitted to ELEX 5043 and will be examined on its own merits and facts in light of the DAR requirements as outlined in reference (d). Since re-use of a contract specification will be construed as evidence of improper use of the exception, Project Engineers should be prepared to demonstrate with clear and convincing documentation, those particular facts which prove that preparation of a specification would in fact be impracticable and/or uneconomical.

(2) A contract specification may be used for procurement of items, materials, and services covered by the above exceptions. (See paragraph 4a(3) above.)

(3) Brand name or equal descriptions have been discontinued and shall not be used for procurement of items, materials, and services unless all of the acceptable brand name products and identification numbers are included.

(4) Commercial item description (CID)

(a) Commercial item descriptions (CIDs) and federal specifications as described herein are the only documents authorized for use in the purchase of commercial and commercial-type products except for:

1 Items that mating components of other items for which there are essential interoperable characteristics; are purchased only as spare parts for those items and have traditionally been documented by other descriptive forms such as engineering drawings.

2 Items that are adequately defined in acceptable non-government standards.

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3 Low dollar volume annual purchases and items falling under small purchase procedures (\$10,000 or less).

4 Items purchased for resale.

5 Purchase incident to research and development.

6 Purchase of items for test and evaluation.

7 Purchase of laboratory test equipment for use by government laboratories.

8 Purchase of one-time procurement items.

9 Purchase of items known to be available only from a single source or produced to a single manufacturer's design.

10 Items for which the risk of accepting them as satisfactory depends upon description and inspection, such as where there are safety, national defense, and high dollar value considerations. In this instance a federal or military specification may be used.

(b) The following characteristics, as appropriate, shall be utilized in preparing the CID:

1 Common nomenclature (Cataloging Handbook, H-6).

2 Kind of material, i.e., type, grade, alternatives, etc.

3 Electrical data, if any.

4 Dimensions, size or capacity.

5 Principles of operation.

6 Restrictive environmental conditions.

7 Intended use, including the location within an assembly, essential operating conditions, and the acceptable product levels within the range of products available in the commercial market place.

8 Essential safety features.

9 Equipment with which the item is to be used.

10 Other pertinent information that further describes the item, material, or service required.

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(5) Specifications shall be prepared and used unless jointly waived by ELEX 04 and 05 and PMEs regardless of dollar volume of anticipated procurement when required to meet one or more of the following conditions:

(a) Protect the health and ensure the safety of personnel using or handling the item.

(b) Ensure required interchangeability.

(c) Ensure the minimum quality level required for adequate performance.

(d) Ensure the incorporation of necessary military characteristics.

(6) The preparation, coordination, and implementation of military specifications, standards, and handbooks shall be in accordance with approved DoD policies and procedures as covered by Chapter III of reference (a), and by references (b) and (c). The preparation, coordination, and implementation of Commercial Item Descriptions shall be in accordance with reference (f).

(7) Coordination of limited coordinated specifications. In cases where time permits and interest by another activity is known, limited coordinated military specifications shall be coordinated with interested Navy activities. To conserve both time and manpower, the activities participating should include only those having interest or assigned standardization responsibility.

(8) Coordination with industry. Coordination of military specifications and standards shall be effected with those sections of industry concerned, including potential new suppliers, without disclosing specific quantities. Industry coordination is essential because it provides important information about the latest technological advances, and affords the opportunity for industry to evaluate the changes proposed by the Naval Electronic Systems Command for technical soundness, cost reduction, procurement delays retooling requirements, training, and the effect upon full and free competition. Coordination shall be accomplished with a representative cross section of industry. This cross section shall include concerns of different sizes and from different geographical areas, trade association members and nonaffiliated companies. Trade associations, technical societies and other standardization organizations shall also be included if the need exists. If this coordination results in any proposed change, it should be reviewed before acceptance to determine the impact on military requirements. Changes should then be incorporated only if they do not restrict competition.

(9) Modifications to specifications and standards.

Modifications to specifications will be made only by amendments or revisions, and modifications to standards will be made only by page change notices, pen and ink changes, or revisions and shall be processed as specified in paragraph 7. If it becomes necessary to change the requirements of a specification for a specific contract in the absence of a formal specification change, the Acquisition Manager/Acquisition Engineer (AM/AE) shall consult with ELEX 5043 to determine if the desired specification change can be processed by ELEX 5043 in the required time. If not, the change may be made by a modification to the contract subject to the review and approval of ELEX 5043. Upon completion of the modification of the contract, the AM/AE shall furnish a copy to ELEX 5043.8///

d. Items developed at private expense, and industry standards.

(1) Items developed at private expense (including commercial or non-commercial items) should not be excluded in the preparation of specifications provided other commercial items will also meet the requirements of the specification. When items developed at private expense are referenced in specifications the words "or equal" must follow the proprietary name (for example, Hewlett Packard 28480-11000A, or equal). In instances where it is determined to adopt a commercial item or one developed at private expense as a standard in accordance with the conditions set forth in reference (g), the matter must be referred to the Office Patent Counsel (ELEX OOP) for the acquisition of appropriate licenses under patents, technical data, and copyrighted material in order that the proposed specification or standard may be used for competitive procurement of the item.

(2) Nationally recognized industry and technical society standards and specifications shall be used to the maximum extent practicable in the development and design of material and in the preparation of Military and Federal Standards and specifications. This will permit the maximum conservation of engineering effort while ensuring that the requirements of the DoD are successfully geared to existing industrial practices and resources.

e. Flexibility in modifying specifications and standards. Standards and specifications, at the time of issuance, shall prescribe requirements reflecting the existing state of technological and scientific progress, by experience in production or use, or by material shortages.

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f. Use of specifications and standards. Coordinated Federal and Military specifications and Commercial Item Descriptions are approved for use by the DoD for procurement of the items, materials, or services so covered. Coordinated Federal and Military standards are approved for use by the DoD by reference in specifications to serve the needs of designers and to control variety.

g. Commercial item descriptions. Coordinated CIDs are approved for use by DoD for procurement of the commercial and the commercial-type products specified therein.

6. Responsibilities.

a. AM/AE. Technical action, including preparation of the drafts of specifications and standards, is the responsibility of the AM/AE concerned.

b. ⁸²ELEX ~~460~~, ⁸¹³ELEX ~~470~~ and ⁸¹⁵ELEX ~~480~~

(1) Are responsible for submitting to the AM/AE via the AL and the ILSM the following requirements:

(a) Preparation for delivery requirements.

(b) Maintenance concept.

(c) System effectiveness requirements, including quality assurance, human factors, safety, maintainability and reliability requirements for equipment specifications.

(d) Calibration, Built-in-Test Equipment (BITE) and special test equipment requirements for equipment specifications.

(2) May furnish inputs on specifications of singular interest to the Marine Corps Headquarters for consideration, if requested.

c. ⁸³²ELEX ~~51024~~ and ⁸¹³⁴~~5045~~. Are responsible for reviewing proposed specifications to determine the applicability of and requirements for electromagnetic environmental effects (EMI/EMC/EMP/ECCM) and the standard electronic modules (SEM) program, respectively.

d. ⁸¹⁴ELEX ~~00B-SES0~~ is responsible for providing requirements in equipment system specifications with embedded computer resources.

"e. ELEX 8111. As designated by reference (1), ELEX 8111 shall serve as the Command Standardization Office (COMSO). ELEX 8111 is the single point of contact within NAVELEX for standardization matters (less International Standardization). In this capacity, all administrative action, including final preparation, circulation, and coordination, both in NAVELEX and between the Command and other Government activities and initiation of projects is the responsibility of ELEX 8111. ELEX 8111 will develop and maintain data on federal and military standardization documents".

7. Procedures .

a. Military and federal specifications, standards, handbooks, and commercial item descriptions

(1) Prepared by NAVELEX. Drafts of military specifications, contract specifications, standards, handbooks, and commercial item descriptions or revisions or amendments thereto shall be prepared by the cognizant AM/AE, cleared with other interested codes (see paragraph 6b above) submitted in accordance with reference (h), and forwarded to ELEX 5043 for review, final preparation, approval, printing, and distribution. Drafts received that have not been cleared with other interested codes will not be accepted by ELEX ⁸¹¹¹5043 for processing. Those documents generated by NAVELEX and requiring coordination within DoD and industry will be coordinated with interested activities of the Army, Air Force, other Navy activities, and industry by ELEX 5043.

(2) Not prepared by NAVELEX. ELEX ⁸¹¹¹5043 receives specifications, standards, handbooks, and commercial item descriptions prepared by activities other than the Naval Electronic Systems Command which are of interest to the Command or which designate NAVELEX as Navy custodian. They will be routed to the primary AM/AE and other interested technical codes for review and submission of technical comments. ELEX ⁸¹¹¹5043 will prepare and sign the correspondence reflecting NAVELEX's comments and recommendations when the specification is of interest. In cases where the Command has been designated Navy custodian, ELEX ⁸¹¹¹5043 will consolidate the Navy comments and recommendations and submit them to the preparing activity.

(3) Industry coordination. The technical codes shall ensure adequate coordination of Federal and Military specifications and standards with the affected segments of industry. To accomplish this, either of the procedures in paragraphs 7a(3)(a) or 7a(3)(b) below may be used:

(a) The cognizant AM/AE will circulate drafts of specifications and standards to industry for comment. The original correspondence (industry comments) ⁸¹¹¹and a copy of the outgoing letter shall be forwarded to ELEX 5043 for file in the official NAVELEX specification or standard development files, or

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(b) The cognizant AM/AE shall furnish ELEX 5043⁸¹¹¹ with a listing of manufacturers and trade associations to be contacted for comment and the circulation will be accomplished by ELEX 5043.8111

(4) Specification changes affecting existing stock.
A specification may be such that continued use of existing stocks (procured under previous issues of the specification) would adversely affect the performance or interchangeability of equipment being furnished under contract. Therefore, when a specification is modified, the cognizant technical code will notify ELEX 5043 of any restrictions on the continued use of existing stocks purchased under previous issues of the specification. If there are restrictions, ELEX 5043 will take the necessary action to advise the logistic support activities accordingly.

b. Contract specifications.

(1) Contract specifications shall be prepared by the cognizant AM/AE (see paragraph 7a(1) above) and forwarded to ELEX 5043 for processing. The format used shall be the format for military specifications. Specifications shall be submitted to ELEX 5043 in accordance with the provisions of reference (h).

(2) Copies of contract specifications will be issued and serially numbered and controlled by ELEX 5043.8111

(3) ELEX 5043⁸¹¹¹ will ensure sufficient copies are available for distribution to prospective bidders and inspectors. All other requests for copies of contract specifications should be directed to ELEX 5043.8111

(4) Distribution of contract specifications used on a one-time basis is limited to government personnel before issuance of a contract solicitation in order to prevent undue competitors advantage. Questions as to whether an exemption of reference (i) applies should be directed to ELEX OOC. Copies of contract specifications are normally furnished to the following with cognizant AM/AE approval:

- (a) Bona fide prospective bidders.
- (b) Inspectors.
- (c) Desk and file copies within NAVELEX.
- (d) Military activities having a demonstrable interest in the item of material covered.
- (e) Prime contractors.

8. Use of MIL-STD-490 and MIL-S-83490. This standard and specification shall only be invoked in hardware acquisition contracts if a specification is a deliverable product. If there is a need to re-use the specification for production procurement, it shall be changed to meet the requirements of reference (b). It is not intended that a specification be developed by a software contractor in accordance with this standard and specification. When the latter is required, the format prescribed by references (b) and (c) shall be used. Additionally, in order to facilitate the final preparation of NAVELEX Research and Development (R&D) and procurement specifications, NAVELEX codes involved in contracting for the development and preparation of procurement specifications will provide to each contractor:

a. Clear and concise instructions to ensure that the specification being prepared will meet the stated need.

b. Explicit direction concerning specific items that are to be returned to NAVELEX after each specification is completed and delivered. The following items will be in addition to the inclusion of appropriate Defense Acquisition Regulations (DAR) clauses and must be included in the Contract Data Requirements List (DD Form 1423) as deliverables. These items include but are not limited to:

- (1) Original specification figures.
- (2) Original drawings.
- (3) Original tables.
- (4) Word processing tapes.
- (5) Word processing discs.

9. Issue and acquisition of specifications, standards, and handbooks. Information relative to the latest issue of specifications, standards, and handbooks and how to obtain them may be obtained from ELEX 5043.8111

10. Requirements for Statement of Work (SOW). Nonspecification item tasks that are beyond the limitations imposed on specifications will be included in a SOW. Guidance on preparing a SOW and example requirements are provided in reference (j).

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11. Action. Addressees shall be familiar with the provisions of this instruction and those of references (a), (b), (c), and (d). Specifications which reference MIL-E-16400 should be drafted following the guidelines of enclosure (1) (Appendix A). In order to expedite the processing of these documents, it is necessary that they be technically complete and accurate. Documents needed for immediate procurement shall be forwarded to ELEX 5043 in sufficient time to allow for processing (normally 20 working days) in advance of the deadline date "for use". Availability of a specification "for use" shall mean the printed document, as opposed to the draft as released by the technical code.



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APPENDIX A

GUIDELINES REGARDING THE USE OF MIL-E-16400

The following are general guidelines and information to be used when referencing MIL-E-16400 in the individual equipment specification (IES).

1. MIL-E-16400 is a general specification that contains requirements in Section 3 that are common to different types, classes, grades, or styles of specific items and processes. Unless exception is taken in the IES, it is intended by the boundaries established in MIL-E-16400 to allow the engineer a certain amount of latitude or discretion in designing and building of equipments that meet the desired performance requirements. MIL-E-16400 is referenced to avoid repetition of specifying common requirements in Section 3 of each IES; therefore, the IES, MIL-E-16400, and other documents to the extent referenced therein constitute the total requirements. It is DoD policy that, insofar as practicable, requirements should be in terms of performance, and will be detailed only to the degree necessary to ensure the procurement of materials, products, or services adequate for the purpose to be covered. Design requirements such as dimensions, materials, composition, physical, and chemical requirements shall be included only to the extent necessary to control design. When other than form, fit, and function interchangeability is essential with respect to repairable items, it is permissible to specify details of design to the extent necessary to ensure interchangeability of replacement parts.

2. In developing IESs, AM/AEs should include in Section 3 a general requirement paragraph as follows: "Requirements shall be in accordance with MIL-E-16400, except as hereinafter specified." This permits Section 3 of the IES to specify only those requirements that are peculiar to the item to be purchased.

3. In order to control those features of design pertaining to interchangeability, compatibility, reliability, and maintainability for reprourement of identical equipment, it may be necessary to invoke MIL-E-16400 "to the extent specified herein" in Section 3 of the IES. When this is required, Section 3 should contain a general requirement paragraph as follows: "Requirements shall be in accordance with MIL-E-16400 to the extent specified herein". The AM/AE must address each feature of design to insure that identical equipment is obtained.

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4. There are a number of items in MIL-E-16400 that should be considered when preparing a specification. Some items must be included, some only if applicable, others if exceptions apply. The list of items in 6.2.1 of MIL-E-16400 should be reviewed in preparing an IES. The following items are listed as in MIL-E-16400 and must be addressed in the IES:

- b. Performance requirements to be specified - self explanatory.
- c. Physical characteristics to be specified - self explanatory.
- d. Weight limit to be specified - self explanatory.
- i. Reliability requirements - expressed in MTBF (upper and lower), MCBF or other.
- k. Maintainability requirements - expressed in MTTR, ERT or other.
- n. Operating temperature range - self explanatory.
- qq. EMI class and sub-class of MIL-STD-461 to be specified.
- vvvv. Wind velocity test requirements.
- www. Icing test requirements.
- xxxx. Hydrostatic pressure test requirements.
- yyyy. Underwater explosion test condition to be conducted.
- zzzz. Hydraulic shock machine adjustment requirements for underwater explosion test.
- aaaaa. Nuclear air blast test requirements.
- bbbbb. Mounting fixture for shock test.
- cccc. Shock test for equipment weighing over 60,000 pounds.
- ddddd. When weld tests are to be performed.
- iiiii. Reliability test and demonstration to be performed.
- jjjjj. Maintainability demonstration to be performed.
- kkkkk. Preparation for delivery requirements.
- _____ Applicable procedure of MIL-STD-965.

The remaining items listed in 6.2.1 of MIL-E-16400 should be addressed if they are applicable or if the requirements are different from those specified in MIL-E-16400.

5. The Quality Assurance Provisions of the IES must include the examinations and tests to be performed to determine that the item conforms to the requirements specified in Sections 3 and 5. Section 4 of the IES may invoke by reference any of the specified tests of MIL-E-16400 or other documents by title, or specifically identified test or other definitive designation. Reference may be made to a specific test of other documents modifying (adding to or detracting from) as necessary to invoke to the extent deemed necessary. Note that reference by paragraph numbers in other documents is not permitted.

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